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| L5 and 562/\$ | 13 |

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L6

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| <u>L6</u> | L5 and 562/\$ | 13 | <u>L6</u> |
| <u>L5</u> | L4 and (acrylic acid or methacrylic acid) | 39 | <u>L5</u> |
| <u>L4</u> | L3 and oxygen and reactor and pressure | 64 | <u>L4</u> |
| <u>L3</u> | L2 and propene and isobutene | 68 | <u>L3</u> |
| <u>L2</u> | L1 and metal oxide and hetero\$9 | 380 | <u>L2</u> |
| <u>L1</u> | partial oxid\$8 and (propane or isobutane) | 3126 | <u>L1</u> |

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☐ 1. Document ID: US 20070032680 A1

L6: Entry 1 of 13

File: PGPB

Feb 8, 2007

PGPUB-DOCUMENT-NUMBER: 20070032680

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070032680 A1

TITLE: Heterogeneously catalyzed gas-phase partial oxidation of precursor compounds of (meth)acrylic acid

PUBLICATION-DATE: February 8, 2007

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|----------|-------|---------|
| Felder; Raimund | Neustadt | | DE |
| Unverricht; Signe | Mannheim | | DE |
| Arnold; Heiko | Mannheim | | DE |
| Petzoldt; Jochen | Mannheim | | DE |

US-CL-CURRENT: 562/535; 502/208, 502/240, 502/321, 502/325, 502/353, 502/527.19, 562/547

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KVMC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
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☐ 2. Document ID: US 20060167299 A1

L6: Entry 2 of 13

File: PGPB

Jul 27, 2006

PGPUB-DOCUMENT-NUMBER: 20060167299

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060167299 A1

TITLE: Hydrothermally synthesized Mo-V-M-Nb-X oxide catalysts for the selective oxidation of hydrocarbons

PUBLICATION-DATE: July 27, 2006

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|--------------|-------|---------|
| Gaffney; Anne Mae | West Chester | PA | US |
| Song; Ruozhi | Wilmington | DE | US |

US-CL-CURRENT: 558/321; 502/102, 562/535

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

☐ 3. Document ID: US 20060106244 A1

L6: Entry 3 of 13

File: PGPB

May 18, 2006

PGPUB-DOCUMENT-NUMBER: 20060106244

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060106244 A1

TITLE: Hydrothermally synthesized Mo-V-M-X oxide catalysts for the selective oxidation of hydrocarbons

PUBLICATION-DATE: May 18, 2006

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|--------------|-------|---------|
| Gaffney; Anne Mae | West Chester | PA | US |
| Song; Ruozhi | Wilmington | DE | US |

US-CL-CURRENT: 558/322; 562/547

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
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☐ 4. Document ID: US 20060020142 A1

L6: Entry 4 of 13

File: PGPB

Jan 26, 2006

PGPUB-DOCUMENT-NUMBER: 20060020142

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060020142 A1

TITLE: Catalytic (AMM)oxidation process for conversion of lower alkanes to carboxylic acids and nitriles

PUBLICATION-DATE: January 26, 2006

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------------------------|----------------|-------|---------|
| Pessoa Cavalcanti; Fernando Antonio | Lafayette Hill | PA | US |

US-CL-CURRENT: 558/300; 562/535

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
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☐ 5. Document ID: US 20060004229 A1

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File: PGPB

Jan 5, 2006

PGPUB-DOCUMENT-NUMBER: 20060004229
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060004229 A1

TITLE: Preparation of acrylic acid by heterogeneously catalyzed partial gas phase oxidation of propylene

PUBLICATION-DATE: January 5, 2006

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-----------------------------|--------------|-------|---------|
| Dieterle; Martin | Mannheim | | DE |
| Muller-Engel; Klaus Joachim | Stutensee | | DE |
| Hechler; Claus | Ludwigshafen | | DE |
| Hammon; Ulrich | Mannheim | | DE |
| Diefenbacher; Armin | Germersheim | | DE |

US-CL-CURRENT: 562/527

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
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☐ 6. Document ID: US 20040054222 A1

L6: Entry 6 of 13

File: PGPB

Mar 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040054222
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040054222 A1

TITLE: Heterogenically catalysed gas-phase partial oxidation method for precursor compounds of (meth)acrylic acid

PUBLICATION-DATE: March 18, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|----------|-------|---------|
| Felder, Raimund | Neustadt | | DE |
| Unverricht, Signe | Mannheim | | DE |
| Arnold, Heiko | Mannheim | | DE |
| Petzoldt, Jochen | Mannheim | | DE |

US-CL-CURRENT: 562/547; 502/208, 502/210, 502/211, 502/212, 502/213, 502/311, 502/312

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De |
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☐ 7. Document ID: US 20030094381 A1

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File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030094381
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030094381 A1

TITLE: Electroactive catalysis

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------------|--------------|-------|---------|
| Bors, Daniel Arthur | Maple Glen | PA | US |
| Gaffney, Anne Mae | West Chester | PA | US |
| Maroldo, Stephen Gerard | Ambler | PA | US |

US-CL-CURRENT: 205/433; 205/440, 558/320, 562/534, 562/535

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KVMC | Draw. De |
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☐ 8. Document ID: US 20030040570 A1

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File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030040570
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030040570 A1

TITLE: Preparation of pure (meth)acrylic acid and (meth)acrylates

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|--------------------|--------------|-------|---------|
| Nestler, Gerhard | Wien | | AT |
| Schroeder, Juergen | Ludwigshafen | | DE |

US-CL-CURRENT: 524/558; 524/556, 526/317.1, 526/319, 562/400

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KVMC | Draw. De |
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☐ 9. Document ID: US 20020123647 A1

L6: Entry 9 of 13

File: PGPB

Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020123647
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020123647 A1

TITLE: Recycle process

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------------------------|-------------------|-------|---------|
| Bogan, Leonard Edward JR. | Hatfield | PA | US |
| Bors, Daniel A. | Maple Glen | PA | US |
| Cavalcanti, Fernando Antonio Pessoa | Lafayette Hill | PA | US |
| Han, Scott | Lawrenceville | NJ | US |
| Jacobs, Bradley Anson | Chalfont | PA | US |
| Kaiser, Frederick William | Fort Washington | PA | US |
| Klugherz, Peter David | Huntingdon Valley | PA | US |
| Lin, Manhwa | Maple Glen | PA | US |
| Zolotorofe, Donald Lee | Ivyland | PA | US |

US-CL-CURRENT: 562/545

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KIMC | Draw. De |
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☐ 10. Document ID: US 7129195 B2

L6: Entry 10 of 13

File: USPT

Oct 31, 2006

US-PAT-NO: 7129195

DOCUMENT-IDENTIFIER: US 7129195 B2

TITLE: Heterogenically catalysed gas-phase partial oxidation method for precursor compounds of (meth)acrylic acid

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040054222 A1

March 18, 2004

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KIMC | Draw. De |
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☐ 11. Document ID: US 7074956 B2

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File: USPT

Jul 11, 2006

US-PAT-NO: 7074956

DOCUMENT-IDENTIFIER: US 7074956 B2

TITLE: Hydrothermally synthesized Mo-V-M-X oxide catalysts for the selective oxidation of hydrocarbons

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040181084 A1

September 16, 2004

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstracts | Abstracts | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-----------|--------|------|--------|
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☐ 12. Document ID: US 7053022 B2

L6: Entry 12 of 13

File: USPT

May 30, 2006

US-PAT-NO: 7053022

DOCUMENT-IDENTIFIER: US 7053022 B2

TITLE: Hydrothermally synthesized MO-V-M-NB-X oxide catalysts for the selective oxidation of hydrocarbons

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040063990 A1

April 1, 2004

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Abstracts | Abstracts | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-----------|--------|------|--------|
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☐ 13. Document ID: US 7049466 B2

L6: Entry 13 of 13

File: USPT

May 23, 2006

US-PAT-NO: 7049466

DOCUMENT-IDENTIFIER: US 7049466 B2

TITLE: Recycle process

PRIOR-PUBLICATION:

DOC-ID

US 20020123647 A1

DATE

September 5, 2002

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-------------------|----------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | September 5, 2002 | Abstract | Claims | KMOC | Draw. De |
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